IN THE CLAIMS

Amend Claims 1, 7, 13, 15, and 16 Cancel Claims 9 and 17

1. (Currently Amended) A method for automatic handling of errors within a database engine, the method comprising the steps of:

detecting an error while executing a query access plan; and

in response to detecting the error, automatically rebuilding the query access plan to generate a new query access plan-; \underline{and}

executing the new query access plan.

- 2. (Cancel) The method of claim 1, further comprising the step of: executing the new query access plan.
- 3. (Original) The method of claim 1, wherein the error is a function check.
- 4. (Original) The method of claim 1 further comprising the steps of: receiving another error while executing a function within the new query access plan; identifying a first implementation method of the function within the new query access plan; and

rebuilding the new query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a rebuilt query access plan.

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- 5. (Original) The method according to claim 1, further comprising the step of: logging information about the error, and the new query access plan.
- 6. (Original) The method according to claim 1, further comprising the step of: reporting the error.

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7. (Currently Amended) A method for automatic handling of errors within a database engine, the method comprising the steps of:

receiving an error while executing a function within a query access plan; identifying a first implementation method of the function within the query access plan; and

rebuilding the query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a new query access plan; and executing the new query access plan.

- 8. (Original) The method of claim 7, wherein the function is one of a join function, an indexing function, a grouping function, and an ordering function.
- 9. (Cancel)
- 10. (Original) The method of claim 9, further comprising the steps of: receiving another error while executing the function within the new query access plan; and

rebuilding the new query access plan by replacing the second implementation method with a third implementation method of the function.

11. (Original) The method according to claim 10 further comprising the step of: logging information about the error, the another error, and the new query access plan.

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(Original) A method for automatic handling of errors within a database engine, the 12. method comprising the steps of:

executing a query access plan comprising a plurality of functions, each function including a first implementation method;

detecting a first error when executing a first function;

rebuilding the query access plan to generate a new query access plan;

executing the new query access plan;

receiving a second error while executing the first function within the new query access plan; and

rebuilding the new query access plan by replacing the first implementation method with a second implementation method of the function.

13. (Currently Amended) A program product, comprising:

a program code configured upon execution to:

detect an error while executing a query access plan, and in response to detecting the error, automatically rebuild the query access plan to generate a new query access plan in response to detecting the error execute the new query access plan; and

a signal bearing medium bearing the program code.

14. (Original) The program product of claim 13, wherein the program code is further configured to:

receive an error while executing a function within the new query access plan; identify a first implementation method of the function within the new query access plan; and

rebuild the new query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a rebuilt query access plan.

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15. (Currently Amended) A program product, comprising:

program code configured upon execution thereof to:

receive an error while executing a function within a query access plan; identify a first implementation method of the function within the query access

plan, and

rebuild the query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a new query access plan, and

execute the new query access plan; and

a signal bearing medium bearing the program code.

16. (Currently Amended) An apparatus comprising:

at least one processor;

a memory coupled with the at least one processor; and

a program code residing in memory and executed by the at least one processor, the program code configured to:

detect an error while executing a query access plan; and in response to detecting the error, automatically rebuild the query access plan, in response to detecting the error, to generate a new query access plan, and execute the new query access plan.

- 17. (Cancel)
- 18. (Original) The apparatus of claim 16, wherein the error is a function check.
- 19. (Original) The method of claim 16, wherein the program code is further configured to: detect another error while executing a function within the new query access plan; identify a first implementation method of the function within the new query access plan; and

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rebuild the new query access plan by replacing the first implementation method with a second implementation method of the function so as to generate a rebuilt query access plan.

20. (Original) The method according to claim 16, wherein the program code is further configured to:

log information about the error, and the new query access plan.

21. (Original) The method according to claim 16, wherein the program code is further configured to:

report the error.

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